

## **Curriculum Vitae**

Christopher J. Burns  
17 Arthur St  
Caulfield North  
VIC 3161  
AUSTRALIA

### **Business Address**

Cytopia Pty Ltd  
Level 5  
Baker Medical Research Institute  
Melbourne  
VIC 3004  
AUSTRALIA

### **Personal Data**

Date of Birth: March 21st, 1964  
Place of Birth: Melbourne, Australia  
Nationality: Australian

### **Education**

1986-1989 Ph.D. in Organic Chemistry, University of Melbourne.  
1982-1985 B.Sc. (Hons.) in Chemistry, University of Melbourne.

### **Honours and Awards**

2006 Alchemia Award for Research in Industry  
1989 QE II Silver Jubilee Award for Young Australians.  
1986-1989 Commonwealth Postgraduate Research Award.  
1988 Daniel Curdie Scholarship in Science.  
1985 Professor Kernot Scholarship in Chemistry.  
1984 James Cuming Scholarship in Chemistry.

### **Experience**

Jan 2001- Present *Head of Chemistry, Cytopia Pty Ltd*  
Jul 1998 – Dec 2000 *Project Leader, Ambri Pty Ltd, commercialising company for the Cooperative Research Centre for Molecular Engineering and Technology (CRC MET)*  
Mar 1996-Jun 1998 *Research Fellow, School of Chemistry, University of Sydney - working with the CRC MET*  
1991-Feb 1996 *Senior Scientist, Discovery Chemistry, Pfizer Central Research, Sandwich, U.K.*  
1989-1991 *Post-Doctoral Research Fellow, Pennsylvania State University*  
1986-1989 *Ph. D. Thesis Research, University of Melbourne*  
1988 *Resident Tutor in Chemistry, Ormond College, University of Melbourne.*  
1985 *Honours Thesis Research, University of Melbourne.*

## Selected Publications

- 'New Trihydroxylated Tetrahydroanthraquinones from fungi of the Genus Dermocybe', C.J. Burns, M. Gill, A.J. Giménez, *Tetrahedron Lett.*, **1989**, 30, 7269.
- 'Pigments of Fungi 21. Synthesis of ( $\pm$ )-Demethoxyaustrocortirubin', C.J. Burns, M. Gill, *Aust. J. Chem.*, **1991**, 44, 1427.
- 'Pigments of Fungi 22. Total Synthesis of ( $\pm$ )-Austrocortirubin, ( $\pm$ )-1-Deoxyaustrocortirubin and ( $\pm$ )-1-Deoxyaustrocortilutein', C. J. Burns, M. Gill, *Aust. J. Chem.*, **1991**, 44, 1447.
- 'Pigments of Fungi 23. Approaches Towards ( $\pm$ )-Austrocortirubin from 3-Methyl-1-trimethylsilyloxy-1,3-diene', C.J. Burns, M. Gill, A.H. bin Othman, B.W. Skelton, A.H. White, *Aust. J. Chem.*, **1991**, 44, 1715.
- 'Pigments of Fungi 24. New Trihydroxylated Tetrahydroanthra-quinones from an Australian fungus belonging to the Genus Dermocybe', C.J. Burns, M. Gill, A.J. Giménez, *Aust. J. Chem.*, **1991**, 44, 1729.
- 'Radical Mediated Intramolecular [3-atom + 2-atom] Addition and the Synthesis of ( $\pm$ )-Rocaglamide: Model Studies', K. S. Feldman, C. J. Burns, *J. Org. Chem.*, **1991**, 56, 4601.
- 'Pigments of Fungi 44. Asymmetric Synthesis of the chiral glutarate degradation component from Piptoporic Acid', C.J. Burns, M. Gill, S. Saubern, *Aust. J. Chem.*, **1997**, 50, 1729.
- 'Asymmetric Synthesis of Heterocycles Through the Use of Chiral Copper Carbenoids', C.J. Burns, J.S. Clark, M. Fretwell, *Tetrahedron Lett.*, **1998**, 39, 97.
- 'A Convenient Synthetic Route to Differentially Functionalised Long Chain Polyethylene Glycols', C.J. Burns, L.D. Field, K. Hashimoto, B.J. Petteys, D.D. Ridley, K.R.A.S. Sandanayake, *Synth. Commun.*, **1999**, 29, 2337.
- 'Synthesis of Stereoisomerically Pure Mono-ether Lipids', C.J. Burns, L.D. Field, K. Hashimoto, B.J. Petteys, D.D. Ridley, M. Rose, *Aust. J. Chem.*, **1999**, 52, 387.
- 'Preparation of Cyclic Disulfides from Bisthiocyanates', C.J. Burns, L.D. Field, J. Morgan, D.D. Ridley, V. Vigneich, *Tetrahedron Lett.*, **1999**, 40, 6489.
- 'Synthesis of New Components for Tethered Bilayer Membranes and Preliminary Surface Characterisation', C.J. Burns, P. Culshaw, L.D. Field, M. Islam, J. Morgan, B. Raguse, D.D. Ridley, L. Wieczorek, M. Wilkinson, V. Vigneich, *Aust. J. Chem.*, **1999**, 52, 1071.
- 'Solution- and Solid-Phase Synthesis of Components for Tethered Bilayer Membranes', A. Bendavid, C.J. Burns, L.D. Field, K. Hashimoto, D.D. Ridley, K. R. A.S. Sandanayake, L. Wieczorek, *J. Org. Chem.*, **2001**, 66, 3709.
- 'Components for Tethered Bilayer Membranes: Synthesis of Hydrophilically Substituted Phytanol Derivatives' C. J. Burns, L. D. Field, J. Morgan, B. J. Petteys, J. Prashar, D. D. Ridley, K. R. A. S. Sandanayake, V. Vigneich, *Aust. J. Chem.*, **2001**, 54, 431.
- 'Synthesis and characterization of SAMs and Tethered Bilayer Membranes from unsymmetrically substituted 1,2-dithianes' C. J. Burns, L. D. Field, B. J. Petteys D. D. Ridley. *Aust. J. Chem.* **2005**, 58, 738
- 'The structural basis of Janus kinase 2 inhibition by a potent and specific pan-Janus kinase inhibitor' I. S. Lucet, E. Fantino, M. Styles, R. Bamert, O. Patel, S. E. Broughton, M. Walter, C. J. Burns, H. Treutlein, A. F. Wilks, and J. Rossjohn *Blood*, **2006**; 107: 176 - 183

## **Selected Patents**

'Quaternary Ammonium Compounds as Tachykinin Antagonists', WO9807722, S.M. Monaghan, D. Alker, C.J. Burns.

'Preparation of glycerolipid membrane ionophore linkers and their attachment to an electrode', WO 9743274, B. Raguse, C.J. Burns

'Methods using pyrazine compounds and pyridine compounds for inhibiting JAK kinases, compound preparation, and therapeutic use' WO 0260492 C. J. Burns, A. F. Wilks

'Protein Kinase Inhibitors' WO 03099796 C. J. Burns, X. Bu, A. F. Wilks

'Kinase Inhibitors' WO 03099811 C. J. Burns, X. Bu, A. F. Wilks

'Tubulin Inhibitors' WO 2005054199 C. J. Burns, A. F. Wilks, M.F. Harte, H. Sikanyika, E. Fantino, C.G. Sims

'Selective Kinase Inhibitors' WO 2005066156 M.L. Styles, J. Zeng, H.R. Treutlein, A. F. Wilks, M.R. Kling, X. Bu, C. J. Burns